

Abstract

A linear ball bearing having a guide carriage (2) which is guided on a guide rail (1) in a longitudinally displaceable manner and is mounted in rolling contact on longitudinal sides of the guide rail (1) via balls (3) which are arranged on each longitudinal side in at least two parallel ball rows (4, 5) encircling in endless ball channels (6), each ball (3) of the one ball row (5) together with an adjacent ball (3) of the other ball row (4) being held all round in cage pockets (8) of a common cage piece (7), the cage piece (7) having exactly two cage pockets (8) for one ball (3) each from both ball rows (4, 5), each cage piece (7), as viewed in the running direction of the balls (3), being provided at both ends with convexly curved end surfaces (9) for contact with the end surfaces (9) of adjacent cage pieces (7), which end surfaces (9) extend essentially up to the cage piece sides (10).

Figure 3